

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-193-27
Relating to Exemptions under Section 27156
of the Vehicle Code

Car Sound Exhaust System, Inc.
"Series 46000 OBD II Compliant Three-way Catalytic Converter"

WHEREAS, Vehicle Code Sections 27156 and Section 2222(h), Title 13, California Code of Regulations (hereafter "CCR"), authorize the California Air Resources Board and its Executive Officer to exempt new aftermarket catalytic converters from the prohibitions of Vehicle Code Section 27156.

WHEREAS, Car Sound Exhaust System, Inc. (Car Sound) of 22961 Arroyo Vista, Rancho Santa Margarita, California 92688, has applied to the Air Resources Board for exemption from the prohibitions in Vehicle Code Section 27156 to market its new aftermarket Series 46000 three-way catalytic converter (TWC) for installation on selected 1996 through 2000 model year GM passenger cars equipped with on-board diagnostic II (OBD-II) systems as specified in Appendix D-193-27 and incorporated herein. The Series 46000 TWC will be used for single (1 unit) exhaust system applications for selected GM passenger cars.

The TWC may also be installed on non-OBD II vehicles (1995 and older) similar in engine and exhaust configuration to those listed in Appendix D-193-27.

WHEREAS, pursuant to the authority vested in the Executive Officer by Health and Safety Code Section 39515 and in the Chief, Mobile Source Operations Division by Health and Safety Code Section 39516 and Executive Order G-02-003, Air Resources Board finds that the above aftermarket catalytic converter complies with the California Vehicle Code Section 27156 and Title 13, California Code of Regulations, Section 2222(h). The emissions performance of the catalytic converter was based on durability bench-aging by Delphi Energy and Chassis Systems using Air Resources Board-modified RAT-A bench-aging cycle for 75 hours, as specified in the "Optional Evaluation Procedures for New Aftermarket Non-original Equipment Catalytic Converters Equipped with On-Board Diagnostic II (OBD II) Systems."

WHEREAS, emissions tests conducted at the Automotive Testing Development Services, Inc. (ATDS), Ontario, California, using a 1999 3.8L Pontiac Grand Prix equipped with a single (1 unit) exhaust system, and certified to the Low Emission Vehicle (LEV, PC) emission standards showed that the vehicle met the applicable emission standards with Series 46000 TWC (1 unit) installed.

OBD II compatibility tests performed on the same test vehicle showed that Series 46000 TWC did not affect the vehicle's ability to perform OBD II system monitoring. Emission test results in grams per mile are shown below.

ATDS, Ontario, California				
3.8L Grand Prix Test				
	NMOG	CO	NOx	Remarks
100K Standard	0.090	4.2	0.3	
Test 1	0.085	1.3	0.2	Pass
Test 2	0.084	1.4	0.2	Pass
Average of Tests 1 & 2	0.085	1.4	0.2	Pass

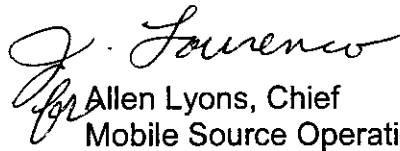
IT IS HEREBY RESOLVED that the above catalytic converter is exempt from the prohibitions in Vehicle Code Section 27156 for installation on the approved vehicle applications specified in Appendix D-193-27 subject to the following conditions:

1. No changes are permitted to the catalytic converter as described in the application for exemption. Any changes to the catalytic converter or any of its components, and other factors addressed in this order must be evaluated and approved by the Air Resources Board prior to marketing in California.
2. Marketing of the catalytic converter using identifications other than those shown in the exemption application, and in this Executive Order, or marketing of the catalytic converter for application other than the ones shown in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board. Exemption of these products shall not be construed as an exemption to sell, offer for sale, or advertise any components of the catalytic converter as individual devices.
3. Any oral or written references to this Executive Order or its content by Car Sound Exhaust System, Inc., its principals, agents, employees, distributors, dealers, or other representatives must include the disclaimer that the Executive Order or the exemption it provides is not an endorsement or approval of any emission reduction claims for the catalytic converter and is only a finding that the catalytic converter is exempt from the prohibitions of Vehicle Code Section 27156.
4. Car Sound Exhaust System, Inc.'s installation instructions for the new catalytic converter must conform to requirements in Paragraphs I and X of the "Optional Evaluation Procedures for New Aftermarket Non-original Equipment Catalytic Converters Equipped with On-Board Diagnostic II (OBD II) Systems."
5. Upon installation, the catalytic converter must carry a manufacturer's warranty for 50,000 miles on the substrates and 50,000 miles or five years on the shell and end pipes.

6. Car Sound Exhaust System, Inc. and its vendors may not advertise the new aftermarket catalytic converter as a "high or easy flow" catalytic converter or use any phrase that could make it appear to perform better than an OEM catalytic converter.

Violation of any of the above conditions shall be grounds for revocation of this order. The order may be revoked only after a ten day written notice of intention to revoke it, during which period the holder of the order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within ten days of receipt of the request, and the order may not be revoked until a determination is made, after the hearing, that grounds for revocation exist.

Executed at El Monte, California, this 15th day of August 2005.


Allen Lyons, Chief
Mobile Source Operations Division

Car Sound Series 46000 for GM passenger Cars

Model Year	Make	Vehicle Model	Engine Size	No of Cylinders	Engine Family	Certification Level	Total Converter	Monitored Converter	Universal	Direct Fit
1996	Buick	LeSabre, Park Avenue	3.8L	6	TGM3.8V8GKEK	Tier 1	1	1	46006	46464
	Buick	Regal								46531
	Buick	Riviera								TBD
	Chevrolet	Camaro								46466
	Oldsmobile	98, Delta 88, LSS								46464
	Pontiac	Bonneville SE	3.8L	6	TGM3.8V8GFFK	Tier 1	1	1	46006	46466
	Pontiac	Firebird								TBD
	Buick	Park Avenue Ultra								46404
	Buick	Riviera								TBD
	Pontiac	Bonneville SSE								TBD
	Chevrolet	Lumina, Monte Carlo	3.4L	6	TGM3.4VJGFEK	Tier 1	1	1	46004	46522
	Oldsmobile	Cutlass Supreme								46004
	Pontiac	Grand Prix								46487
	Buick	Century								46005
	Buick	Regal								46498
	Buick	Skylark	3.1L	6	TGM3.1V8GFEK	Tier 1	1	1	46004	46406
	Chevrolet	Beretta, Corsica								46406
	Chevrolet	Lumina, Monte Carlo								46498
	Oldsmobile	Achieva								46004
	Oldsmobile	Ciera								46487
	Oldsmobile	Cutlass Supreme	3.8L	6	VGM3.8V8GKEK	Tier 1	1	1	46005	46498
	Pontiac	Grand Am								46406
	Pontiac	Grand Prix								46498
	Chevrolet	Camaro								46006
	Oldsmobile	Regency, Delta 88								46437
1997	Pontiac	Firebird	3.8L	6	VGM3.8V8G1FK	Tier 1	1	1	46006	46466
	Buick	Park Ave. Ultra, Riviera								TBD
	Buick	Regal GS, Century								46405
	Oldsmobile	Delta 88, Regency								TBD
	Pontiac	Bonneville SSE								TBD
	Pontiac	Grand Prix	3.8L	6	VGM3.8V8G2EK	TLEV	1	1	46006	46405
	Buick	LeSabre								46437
	Buick	Park Ave, Riviera								46515
	Buick	Regal LS, Century								46405
	Oldsmobile	Delta 88 Royale								46437
	Pontiac	Bonneville SE								46009
	Pontiac	Grand Prix								46405
	Buick	LeSabre	3.8L	6	VGM3.8V8G2EK	TLEV	1	1	46006	46405
	Buick	Park Ave, Riviera								46437
	Buick	Regal LS, Century								46405
	Oldsmobile	Delta 88 Royale								46437
	Pontiac	Bonneville SE								46009
	Pontiac	Grand Prix								46405

Car Sound Series 46000 for GM passenger Cars

Model Year	Make	Vehicle Model	Engine Size	No of Cylinders	Engine Family	Certification Level	Total Converter	Monitored Converter	Universal	Direct Fit
1997	Chevrolet	Lumina, Monte Carlo	3.4L	6	VGM3.4VJG1EK	Tier 1	1	1	46004	46522
	Oldsmobile	Cutlass Supreme							46005	TBD
	Buick	Century	3.1L	6	VGM3.1V8G1EK	Tier 1	1	1	46005	46469
	Buick	Skylark							46004	46460
	Chevrolet	Lumina							46005	46519
	Chevrolet	Malibu							46005	46539
	Chevrolet	Monte Carlo							46005	46519
	Oldsmobile	Achieva							46004	46460
	Oldsmobile	Cutlass							46005	46539
	Oldsmobile	Cutlass Supreme							46005	46519
	Pontiac	Grand Am							46004	46460
	Pontiac	Grand Prix							46005	46469
	Buick	LeSabre							46009	46437
	Buick	Park Ave. Ultra							46009	TBD
	Buick	Park Ave.							46006	46515
	Buick	Regal GS							46006	46405
1998	Buick	Regal LS	3.8L	6	WGMXV03.8048	TLEV	1	1	46004	46521
	Chevrolet	Lumina							46004	46521
	Chevrolet	Monte Carlo							46009	46437
	Oldsmobile	Delta 88 Royale							46006	46405
	Oldsmobile	Intrigue							46009	46437
	Oldsmobile	Regency							46009	46437
	Pontiac	Bonneville SE							46009	46437
	Pontiac	Bonneville SSE							46009	46437
	Pontiac	Grand Prix							46009	TBD
	Buick	Century							46006	46405
	Chevrolet	Lumina, Monte Carlo, Malibu	3.1L	6	WGMXV03.1044	TLEV	1	1	46005	46469
	Pontiac	Grand Prix								46519
	Pontiac	Cutlass								46469
	Oldsmobile	Cutlass								46520

Car Sound Series 46000 for GM passenger Cars

Model Year	Make	Vehicle Model	Engine Size	No of Cylinders	Engine Family	Certification Level	Total Converter	Monitored Converter	Universal	Direct Fit
1999	Buick	Regal	3.8L	6	XGMXV03.8051	TLEV	1	1	46006	46405
	Buick	Park Ave., Riviera, Regal							46009	TBD
	Pontiac	Grand Prix							46006	46405
	Buick	LeSabre							46004	46521
	Buick	Park Ave.							46004	46521
	Buick	Regal							46009	46437
	Chevrolet	Lumina, Camaro							46006	46405
	Chevrolet	Monte Carlo							46004	46521
	Oldsmobile	Delta 88 Royale	3.8L	6	XGMXV03.8048	TLEV	1	1	46009	46437
	Oldsmobile	Intrigue							46006	46405
	Oldsmobile	LSS							46009	46437
	Pontiac	Bonneville SE							46009	46437
	Pontiac	Grand Prix, Firebird							46006	46405
	Chevrolet	Lumina							46005	46519
	Chevrolet	Monte Carlo							46005	46519
	Oldsmobile	Alero							46004	46435
	Buick	Century							46005	46469
	Pontiac	Grand Am SE							46004	46435
	Pontiac	Grand Am GT							46004	TBD
	Pontiac	Grand Prix							46005	46469
2000	Chevrolet	Malibu,	3.1L	6	XGMXV03.1043	LEV	1	1	46005	46520
	Oldsmobile	Outlass							46009	TBD
	Buick	Park Ave.							46006	46405
	Buick	Regal							46006	46405
	Chevrolet	Camaro							46009	TBD
	Pontiac	Bonneville SE							46006	46466
	Pontiac	Firebird, Trans AM							46006	46405
	Pontiac	Grand Prix							46006	46405